

Meet our Consortium

FLASH is a European Project that brings together **16 Industry Leaders** & Academic and Research Organizations, from **11 different European countries**.



Get in Touch Contact



The **FLASH** solutions enables new business models through flexible, customizable tools that ensure modularity, adapt to market demands, and maximize machine utilization across diverse processes.

Our Socials Follow Us



flashlaserproject.eu



youtube.com/@FlashProject-eu



in/company/flash-flexible-laser-based-manufacturing-through-precision-photon-distribution



The Future of Laser Manufacturing

FLASH

Flexible Laser-Based Manufacturing

www.flashlaserproject.eu



Cofunded by
the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Health and Digital Executive Agency. Neither the European Union nor the granting authority can be held responsible for them. Project Number: 101136360.



Transforming Manufacturing with Precision Laser Systems

Revolutionizing manufacturing by delivering *future-proof, highly customizable, and energy-efficient laser-based production systems* to achieve highly precise photon distribution, with applications in the *following processes*:



CUTTING



DRILLING



WELDING



CLADDING



MICRO-MACHINING

FLASH Case Studies: Precision Laser Applications

- ▲ *Superabrasive* Grinding wheels.
- ▲ *Microdrills* with a longer time life.
- ▲ *Automotive cross-car* beam joining.
- ▲ *Copper hairpin* stripping and welding.
- ▲ *Acetabular orthopaedic* implant component.

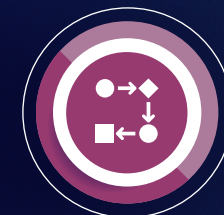


MAIN INNOVATIONS



Integrate Three Laser Sources in a Single Laser Module:

3 beam delivery heads & dynamic beam shaping.



In-Process Monitoring and Control:

Acoustic Sensors and Optical Sensors.



Stablsh Processes for Laser-Based Manufacturing:

Identify the best sequence of individual processing steps.

Flexible Laser-Based Manufacturing

The *FLASH project* lies in its ability to provide *agility, speed, cost-effectiveness, material flexibility, and energy savings* compared to existing technologies.



16

ORGANIZATIONS



+10.000

WEBSITE VIEWS



11

COUNTRIES



5

CASE STUDIES